July 1, 2009 3:57:06 PM

Item ID:

D2410

Αl

Revision ID: Item Name:

206 Aspirator Assembly

Start Date:

07/15/2009

Start Qty: 2.00





Setup Start

Stop



Required Date: 08/03/2009

Req'd Qty: 2.00

Cust Item ID: Customer:

Reference:

Approvals:

Process Plan: $\gamma = Date: 9/69/24$ Tooling:

Run Start



QC: _____ Date: ____ SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

Operation 'Description Set Up/ **Run Hours**

Draw Number Draw Plan Rev. Code

Accept Qty

Reject Reject **Qty**

Insp. Number Stamp

Draw Nbr

Revision Nbr

D2410 Rev A1

100

Small Fab Small Fab

Small Fab

Memo

0.00

0.00

1-Assemble D2413, D2414 and D2404 as per dwg D2410

S0 09/07/21

110

QC5- Inspect part completeness to step on W/O

0.00

809/07/b1

Quality Control

Small Fab

Memo

Memo

0.00

1-Install the rest of assembly parts as per dwg D2404 TM- LO4/11/04



120

Small Fab Small Fab



July 1, 2009 3:57:06 PM

Item ID:

D2410

A1

Revision ID: Item Name:

206 Aspirator Assembly

Start Date:

07/15/2009

Start Qty: 2.00

Required Date: 08/03/2009

Req'd Qty: 2.00



Accept

Setup Start



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date: Date:

Run

Stop

Start

Sequence ID/ **Work Center ID**

130



QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/

Run Hours

Number

Draw

Draw Rev. Code

Plan Accept Qty

Reject Qty

Reject Insp. Number Stamp

Memo

0.00

0.00

0.00

Date: _____ SPC (Y/N):

M112149

140

Powdercoat

Powder Coating

Memo

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

09/11/04

****Place masking tape on red anodize tube of flare section and access to interior of both ends.*****USTART TIME:
TEMPERATURE: FINISH TIME:

÷3000 □ OVEN 320°

150

Quality Control

QC

QC3- Inspect Part Finish

Memo

2) Sorlulay

Work Order ID 43939

July 1. 2009 3:57:06 PM



Page 3

Item ID:

D2410

Αl

Revision ID: Item Name:

206 Aspirator Assembly

Start Date:

07/15/2009

Start Oty: 2.00

Required Date: 08/03/2009

Req'd Oty: 2.00



Accept



Setup Start





Reference:

Α.				la.
A	րթ	ro	٧a.	15.

Process Plan:

Date:

Date: **Tooling:**

SPC (Y/N):

Set Up/

Run Hours

Date:

Date:

Draw

Rev.

Cust Item ID:

Customer:

Run Start

Reject

Oty

Stop



Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

160

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location



0.00

0.00

Draw

Number

Accept

Otv

Plan

Code

170

Quality Control

Memo

QC21- Final Inspection - Work Order Release

Memo

0.00

0.00

Status	Item ID		Rev	Name	Start Date	≀uantity Pe	JON	op Daute Se	ccrap '	ap Quai	mmer	nd NEC IE	CX IIS	ortime Offse	tan Ty	1 Per O	ch to V	ore C	e Last N	dd Dat
2	D2403	/	A	Heater Outer Sheet	01/01/08	1.0000	Ea	100	0	0.00	: '			0 (MRP				06/0	06/
Ø	D2404 v	7	Α	Heaater Perforate	01/01/08	1.0000	Ea	100	0	0.00	22.1			0 (MRP				06/0	06/
3 6	D2411	/	В	Valve Support	01/01/08	1.0000	Ea	100	0	0.00	14.3			0 (MRP				06/0	06/
8	D2412	7	A	Insulation Filter	01/01/08	0.7673	Ea	100	0	0.00	.4			0 (MRP				06/0	06/
②	D2413	7	A	Instake Weldment	01/01/08	1.0000	Ea	100	0	0.00	<i>1</i> (.)			0 (MRP				06/0	06/
3	D2414 🗸		A	Outlet Weldment	01/01/08	1.0000	Ea	100	0	0.00	4)			0	MRP				06/0	06/
②	D2416 🗸		В	Mounting Angle	01/01/08	1.0000	Ea	100	0	0.00	a)			0	0 MRP				06/0	06/
3	D2417	/	В	Mounting Angle	01/01/08	1.0000	Ea	100	0	0.00	<u>a)</u>			0	0 MRP				06/0	06/
②	MS20470AD4-5	V		Rivet, Universal H	01/01/08	8.0000	Ea	100	0	0.00	<u>.e)</u>			0	0 MRP				06/0	06/
Ø	MS20600-AD4W	2 /	,	Rivet	01/01/08	8.0000	Ea	100	0	0.00	a)			0	0 MRP				06/0	06/
%	MS20600-AD4W	3 u	/	Cherry Rivets	01/01/08	2.0000	Ea	100	0	0.00	<u>a)</u>			0	0 MRP				06/0	06/
3	MS20600-AD4W	ر 4	·	Rivets	01/01/08	12.0000	Ea	100	0	0.00	(8)			0	0 MRP				06/0	06/

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Page 1 of 1 Printed Mag 100 . . .

Qty:

2 Um:

Each

: ASPIRATOR ASSEMBLY

: D2410

D2410

: 29/12/2008

: N/A

: A1

Cate: User:

Monday, 08/12/2008 1:52:22 PM

Julie Dawson

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 43939

Type

S.O. No. :

Estimate Number

: 10480

P.O. Number

This Issue Prsht Rev.

: 08/12/2008 : NC

First Issue Previous Run : //

: 35329

Written By Checked & Approved By

Comment

Reformat; Incorporated D2292; : Est:C 03.04.14

D2375-3-08-106: D2403 - D2417

: SMALL /MED FAB

Additional Product

Job Number:

Seq. #:

Machine Or Operation:

Description:

Insulation 48' of 3"ID*1/

1.0

D2375308

Total:

Insulation 48'of 3"ID*1/

Pick:

Comment: Qty.:

Qty

Part Number

0.8333 f(s)/Unit

Description Insulation D2375-3-08

Batch

1.6666 f(s)

M1810

2.0

10.6" D2403

1.0000 Each(s)/Unit

Total:

2.0000 Each(s)

Heater Outer Sheet

Outer Skin

Pick:

1

Qty Part Number

D2403

Description Outer Skin

3.0 D2404

Comment: Qty.:

Heaater Perforated Sheet

Comment: Qty.:

1.0000 Each(s)/Unit

Total:

2.0000 Each(s)

Perforate Sheet, 0.125 Ho

Pick:

Qty 1

Part Number

D2404

Description

Batch

43986

Perforated Sheet

4.0

D2411

Valve Support

Comment: Qty.:

1.0000 Each(s)/Unit

Total:

2.0000 Each(s)

Valve support, 5052-H34

Pick:

Qty 1 D2411

Part Number

Description Valve Mtg Angle Batch

25066

104/10 RZ

Page 1

Dart Aerospace Ltd

W/O:	i		W	ORK ORDER CHANG	ES				
DATE	STEP	PR	OCEDURE CHA	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				· · · · · · · · · · · · · · · · · · ·					
		PAR #:	Fault Cate	gory:	_ NCR: Yes	Date:			
	Re	esolution:	Dispositio	n:	_ QA: N/C Clo	osed:	Date:		
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR	3)			
DATE	STEP	Description of NC Section A	Initial Chief Face	Corrective Action Section Description	Sign &	Verification Section C	Approval Chief Eng	Approval QC Inspector	
•			Chief Eng	Chief Eng	Date	,,			
							1		
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	-					•			

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lay, 08/12/2008 1:52:22 PM Nawson **Process Sheet Drawing Name: ASPIRATOR ASSEMBLY** '-DAR001 Dart Helicopters Services 43939 Part Number: D2410 Description: Seq. #: **Machine Or Operation:** Insulation Filter D2412 5.0 Total: Comment: Qty.: 0.7673 sf(s)/Unit 1.5346 sf(s) Insulation filter Pick: Description Batch Part Number Qty 7099 D2412 Insulation Filter 110.5si Instake Weldment Assembly D2413 6.0 2.0000 Each(s) 1.0000 Each(s)/Unit Total: Comment: Qty.: Intake Weldment Pick: Description Batch Qty Part Number 09/06/1000 Intake Assembly 1 D2413 **Outlet Weldment Assembly** 7.0 D2414 Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) 336x1 B46836x1 Outlet Weldment Pick: Description Batch Part Number Qty **Outlet Assembly** D2414 1 D2416 Mounting Angle 8.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Mounting angle, 1x.625x. Pick: Description Batch Qty Part Number Mounting Angle D2416 1 Mounting Angle 9.0 D2417 Comment: Qty.: 1.0000 Each(s)/Unit Total: 2.0000 Each(s) Mounting angle, 1x.625x. Pick: Description Batch Qty Part Number 09/06/10/08 D2417 Mounting Angle

Dart Aerospace I	Lta
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Dart Aei	rospace	Ltd	• 4						•
W/O:			WC	RK ORDER CHANGES	3				
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		-		N. P. S.					
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
		solution:							
NCR:		V	VORK ORDI	ER NON-CONFORMAN	CE (NCR)		. ,	
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	Sign &			Approval Chief Eng	Approval QC Inspector
		*							
	,						· · · · · · · · · · · · · · · · · · ·		
								,	
								4.	

NOTE: Date & initial all entries

Monday, 08/12/2008 1:52:22 PM Date: User: Julie, Dawson **Process Sheet Drawing Name: ASPIRATOR ASSEMBLY** Customer: CU-DAR001 Dart Helicopters Services Job Number: 43939 Part Number: D2410 Job Number: Description: Seq. #: Machine Or Operation: MS20470AD45 Rivet, Universal Head 10.0 Total: 16.0000 Each(s) Comment: Qty.: 8.0000 Each(s)/Unit Rivet, Universal Head Pick: Description Batch Qty Part Number MS20470AD4-5 Rivet 8 11.0 MS20600AD4W2 Rivet Comment: Qty.: Total: 16.0000 Each(s) 8.0000 Each(s)/Unit Rivet Pick: Description Batch Qty Part Number M109059 8 MS20600AD4W2 Rivet (or CR9163-4-2) Cherry Rivets 12.0 MS20600AD4W3 2.0000 Each(s)/Unit Total: 4.0000 Each(s) Comment: Qty.: Cherry Rivets Pick: Part Number Description Batch Qty MS20600AD4W3 Rivet (or CR9163-4-3) MS20600AD4W4 Rivets 13.0 Total: 24.0000 Each(s) Comment: Qty.: 12.0000 Each(s)/Unit Rivets Pick: Description Qty Part Number Rivet CR9163-4-4 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Assemble D2413, D2414 and D2404 as per dwg D2410

Dart	Aeros	pace	Ltd
Dail	70103	pace	Lu

W/O:		WORK ORDER CHANGES	CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
0906-18	//	Add Of 10 rivers for total 08 18 Permanent Changes	SB	09/04/18	18	Beggin	Baccis		
aloch 18	11	CR 3213-4-4 M 104291 vere use to replace MS 2060020 4m 4				Boxo	8 04.00 - 18		

Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:	R: WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC		Verification	Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
						!		
		•						
		~44						
. , ,								
		**						

NOTE: Date & initial all entries

Monday, 08/12/2008 1:52:22 PM Date: User: Julie, Dawson **Process Sheet** Drawing Name: ASPIRATOR ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Part Number: D2410 Job Number: 43939 Job Number: Seq. #: Description: **Machine Or Operation:** INSPECT WORK TO CURRENT STEP 15.0 QC5 TO CURRENT STEP Comment: INSPECT SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Install the rest of assembly parts as per dwg D2404 INSPECT WORK TO CURRENT STEP QC5 WORK TO CURRENT STEP POWDER COATING POWDER COATING 18.0 11111140 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 ****Place masking tape on red anodize tube of flare section and access to interior of both ends.**** 7:30AL START TIME: 3200F OVEN TEMPERATURE: FINISH TIME: QC3 Comment: INSPECT POWDER COAT PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: FINAL INSPECTION/W/O RELEASE 21.0 QC21 09/11/04 \$ Comment: FINAL IN N/W/O RELEASE Job Completion

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
09/11/03	(0	Clonge rivet rs 20170 AD 4-5 Rox ns 20170 AD 4-4 M 1/23/4 Permeat change	mh	04/11/03	16x	Survey	04.11.03				

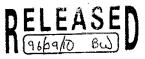
Part No: _		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
DATE	T	Description of NC		Corrective Action Section B	Verification	Approval	Approval					
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector				
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NOTE: Date & initial all entries





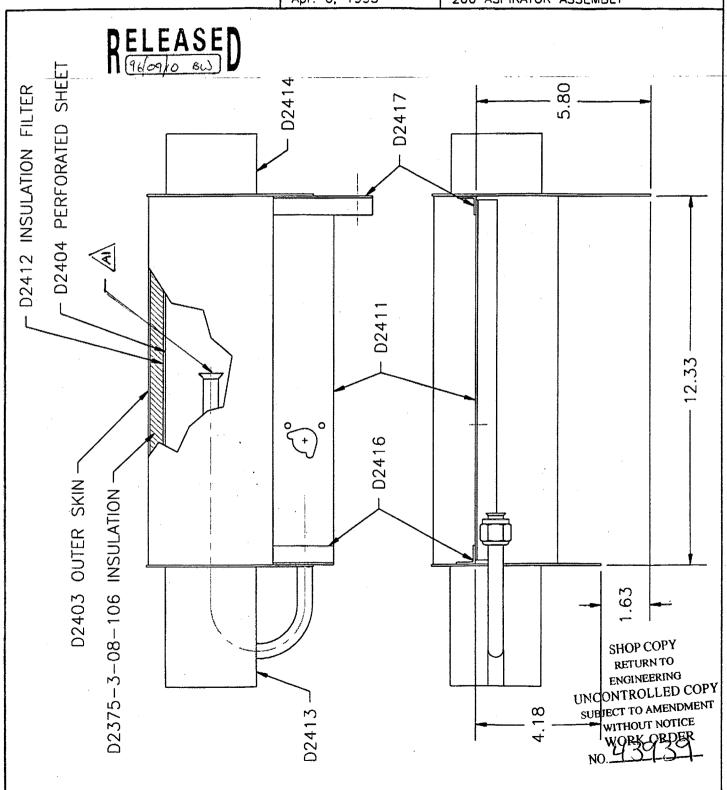


QTY	Part No.	Description B206 ASPIRATOR ASSEMBLY						
X	D2410							
1	D2375-3-08-106	INSULATION						
1	D2403	OUTER SKIN						
-1	D2404	PERFORATED SHEET						
1	D2411	VALVE MOUNTING ANGLE						
1	D2412	INSULATION FILTER						
1	D2413	INTAKE ASSEMBLY						
1	D2414	OUTLET ASSEMBLY						
1	D2416	MOUNTING ANGLE						
1	D2417	MOUNTING ANGLE						
Я	MS 20600 AD 4WZ	RIVET (CR9163-4-2)						
2	MS 20600 ADA U.S	RIVET (CR9163-4-3)						
17	MS Z0600 AD 4W4	RIVET ((R9163-4-9)						
8	MS20470AD4-5	Rivets						

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PREPARED B. William	S	DART AERO ACCESSOF VICTORIA INTERNATIONAL AIRPORT,	
CHECKED	APPROVED		REV. A
BW	BW	D2410	SHEET 2 OF 2
DATE		TITLE	SCALE
Apr. 6, 1	995	206 ASPIRATOR ASSEMBLY	



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Status	Item ID	Rev	Name	Start Date	⊋uantity Pe	UOM	Scrap %	Route Seq IC	Sort	Date Last Mod	Add Date	Comments
(S)	MS20600-AD4W2		Rivet	01/01/2008	8.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	1
8	D2403	Α	Heater Outer Sheet	01/01/2008	1.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	-
8	D2414	Α	Outlet Weldment Assembly	01/01/2008	1.0000	Each	0 %	100	0	05/06/2009 2:3	05/06/2009	- J - J
Ø	MS20470AD4-5		Rivet, Universal Head	01/01/2008	8.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	1 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
12)	D2411	В	Valve Support	01/01/2008	1.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	
Ø.	MS20600-AD4W4		Rivets	01/01/2008	12.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	21)
8	D2417	В	Mounting Angle	01/01/2008	1.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	7
8	D2413	Α	Instake Weldment Assembly	01/01/2008	1.0000	Each	0 %	100	0	05/06/2009 2:3	05/06/2009	.47
8	\$22.005 32.005 TUG 68.00	Α	Insulation	04/11/2009	1.0000	Each	0 %	100	0	04/11/2009 3:4	04/11/2009	
8	D2412	Α	Insulation Filter	01/01/2008	0.7673	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	
8	D2416	В	Mounting Angle	01/01/2008	1.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	., j
8	D2404	A	Heaater Perforated Sheet	01/01/2008	1.0000	Each	0 %	100	0	05/06/2009 2:3	05/06/2009	
(E)	MS20600-AD4W3		Cherry Rivets	01/01/2008	2.0000	Each	0 %	120	0	04/11/2009 3:4	05/06/2009	.17